

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/541698	US-PGPUB; USPAT	ADJ	ON	2008/12/18 16:48
S3	6	lehr, manfred.in.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 16:50
S2	6	guetlhuber, friedrich.in.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 16:50
S4	14	guetlhuber, friedrich.in.	EPO; JPO; DERWENT	ADJ	ON	2008/12/18 16:59
S5	13	lehr, manfred.in.	EPO; JPO; DERWENT	ADJ	ON	2008/12/18 17:04
S6	1	("20030017095").PN.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:13
S7	10	("2921533"   "20040247211"   "3434761"   "3871445"   "4190396"   "4505637"   "4613281"   "4657741"   "6747162"   "6756023"). PN.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:15
S8	481	422/201.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:28
S9	241	422/201.ccls. and cataly \$3	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:31
S10	202	422/201.ccls. and cataly \$3 and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:32
S11	270	422/196.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:41
S12	202	422/196.ccls. and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:42
S13	2469	422/198.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:45
S14	1019	422/198.ccls. and tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:47
S15	25	422/198.ccls. and tub\$4 and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/18 17:48
S16	6	"10137768"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 07:13
S17	21	"369010"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 07:14
S18	7	"1583744"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 07:15
S19	6	"10134026"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 07:16

S20	6	("2986454"   "3929421"   "4127389"   "5048601"   "5820655").PN. OR ("6932950").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 07:19
S21	19	("1812458"   "1934496"   "2132093"   "2581121").PN. OR ("3760870").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 07:21
S23	33	olbert, gerhard.in.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 07:51
S24	8	corr, franz.in.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 07:54
S25	50	olbert, gerhard.in.	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 07:56
S26	7	("4285910"   "4683121"   "4751057").PN. OR ("5286455").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 08:05
S27	66	tub\$4 same react\$3 same feed pipe same valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:09
S29	10	shell same tube same reactor same feed pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:12
S28	3285	shell same tube same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:12
S30	35	shell same tube same reactor same inlet pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:13
S33	262	shell same tube same reactor same feed same pressure	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:17
S31	812	shell same tube same reactor same feed	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:17
S34	1	shell same tube same reactor same feed same pressure same (deflagration or detonation)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:18
S39	108	pressure same (deflagration or detonation) same tub\$4 same react\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:19
S37	4806	pressure same (deflagration or detonation)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:19
S36	0	shell same tube same reactor same inlet same pressure same (deflagration or detonation)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:19
S35	252	shell same tube same reactor same inlet same pressure	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:19

S40	20	("1953786"   "3034869"   "3218048"   "3453087"   "3617227"   "3762465"). PN. OR ("3865555"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 08:21
S41	321	feed pipe same check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:27
S43	0	feed pipe same check valve arrangement	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:29
S42	1	feed pipe same parallel check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:29
S45	6	feed pipe and check valve arrangement	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:30
S47	38	feed pipe same check valve same tub\$4	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:31
S46	3	feed pipe same check valve same tub\$4 same react\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:31
S48	889	check valve arrangement	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:37
S50	658	parallel check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:38
S49	3	parallel check valve arrangement	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:38
S51	1	parallel check valve same feed pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:39
S53	100	check valve same feed pipe same chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:40
S52	321	check valve same feed pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:40
S57	0	parallel valve same conduit same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:42
S56	0	parallel valve same pipe same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:42
S55	0	parallel valve same feed pipe same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:42
S54	2	parallel valve same feed pipe same chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:42
S60	110	check valve with conduit same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:43
S59	173	check valve same conduit same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:43
S58	3359	valve same conduit same reactor	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:43
S61	119	pipe same check valve same mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:53

S62	9	("20060268660"   "3880191"   "4487510"   "5556200"   "5839828"   "5947157"   "5967658"   "6048089"   "6623155"). PN. OR ("7281844"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 08:54
S64	11	plurality near check valve same mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:58
S63	682	plurality near check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:58
S65	66	plurality near check valve same pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 08:59
S66	3	("2734565").PN. OR ("3684006").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 09:02
S67	92	plurality near check valve with chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:03
S71	298	check valve and mixer	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 09:11
S69	0	parallel check valve with mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:11
S68	384	check valve with mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:11
S73	40	check valve and static mixer	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 09:12
S75	36	("1286365"   "2606573"   "2649685"   "2803309"   "2806347"   "3017948"   "3314230"   "3390520"   "3538685"   "3593499"   "3666442"   "3683625"   "3768259"   "3805523"   "3939654"   "4012907"   "4475512"   "4707987"   "4912927"   "5012641"   "5286164"   "5542249"). PN. OR ("5941069"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 09:17
S74	3	(3426841 4163474  5941069).pn.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:17
S76	9	"10021986"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 09:19
S77	6	gas inlet conduit with check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:20
S78	13198	conduit with check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:21
S80	23	conduit with check valve with arrangement with tub \$4	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:22

S79	387	conduit with check valve with arrangement	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:22
S82	1	"5837204".pn.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:24
S83	41	pump with check valve with arrangement with tub \$4	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:26
S85	23	(plate or tray) with plurality near check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:28
S84	247	(plate or tray) with plurality with check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:28
S86	3	("2734565").PN. OR ("3684006").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 09:29
S87	5	("2734565").URPN.	USPAT	ADJ	ON	2008/12/22 09:30
S88	54	(plate or tray) with check valve near arrang\$5	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:31
S91	6205	pump with check valve with chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:33
S90	9160	pump same check valve with chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:33
S89	59694	pump same valve with chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:33
S93	141	pump with plurality with check valve with chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 09:34
S95	1	"20060076062".pn.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 10:46
S96	9	"814287"	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 10:47
S98	83	422/103.ccls. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 10:55
S97	951	422/103.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 10:55
S99	59	422/103.ccls. and mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 10:59
S102	46	422/113.ccls. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:01
S101	273	422/113.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:01
S100	9	422/113.ccls. and mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:01
S103	45	("2972349"   "3332746"   "3373876"   "3463615"   "3506406"   "3515640"   "3526481"   "3536451"   "3579810").PN. OR ("3856475").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 11:04

S105	127	422/186.14.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:09
S104	10	422/186.14.ccls. and mixer	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:09
S106	12	422/186.14.ccls. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:10
S107	44	137/15.06.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:12
S109	39	137/68.14.ccls. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:14
S108	222	137/68.14.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:14
S111	3254	check valve assembly	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:22
S112	374	check valve assembly with (pipe or conduit)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:23
S114	78	"137".clas. and parallel check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:37
S113	11120	"137".clas. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 11:37
S115	144	261/114.4.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 12:30
S116	2	261/114.4.ccls. and check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 12:34
S117	2	("2819050").URPN.	USPAT	ADJ	ON	2008/12/22 12:38
S118	4	("2819050").PN. OR ("3583434").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/22 12:39
S119	6	261/114.4.ccls. and chamber	US-PGPUB; USPAT	ADJ	ON	2008/12/22 12:40
S122	35	chamber with valve with tray with pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:55
S121	0	chamber with valve tray with pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:55
S120	17719	chamber with valve with pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:55
S124	33	chamber near check valve with pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:56
S123	1304	chamber near valve with pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:56
S127	77	chamber near pipe same check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:58
S126	573	chamber near pipe same valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:58
S125	2889	chamber near pipe	US-PGPUB; USPAT	ADJ	ON	2008/12/22 14:58

S128	0	chamber near pipe same valve tray	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:00
S132	177	chamber near conduit same check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:01
S131	0	chamber near conduit same valve tray	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:01
S130	1729	chamber near conduit same valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:01
S129	6543	chamber near conduit	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:01
S133	6550	chamber and conduit and valve	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:04
S137	2	chamber and pipe and valve tray	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:05
S136	1	chamber and conduit and valve tray	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:05
S135	0	chamber and conduit and check valve tray	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:05
S134	537	chamber and conduit and check valve	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:05
S138	14	chamber and valve tray	EPO; JPO; DERWENT	ADJ	ON	2008/12/22 15:07
S143	78	check valve near interrupt \$3	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:12
S142	0	valve tray near interrupt \$3	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:12
S141	2775	valve near interrupt\$3	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:12
S144	18	valve trap near pressure	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:14
S146	100	valve trap with pressure not S144	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:16
S145	118	valve trap with pressure	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:16
S147	22	valve trap with pressure with flow	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:20
S148	126	261/38.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:23
S149	3	valve tray near pressure	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:25
S150	7540	distribut\$3 same (tray or plate) same valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:27
S153	67	distribut\$3 with (tray or plate) with check valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:28
S152	2273	distribut\$3 with (tray or plate) with valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:28

S151	4390	distribut\$3 with (tray or plate) same valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:28
S154	126	distribut\$3 with tray with valve	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:31
S157	1	static mixer same valve tray	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:44
S156	0	static mixer same distribution tray	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:44
S158	145	check valve with tray	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:49
S159	784	check valve near (tray or plate or disk)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:52
S161	33	check valve near (tray or plate) same (pipe or conduit)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:53
S160	365	check valve near (tray or plate)	US-PGPUB; USPAT	ADJ	ON	2008/12/22 15:53
S162	82	261/42.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 17:04
S163	143	261/44.3.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/12/22 17:08
S165	7	("3518284"   "3931273"   "4173615"   "4221763"   "5112578"   "5445801"   "5723094").PN.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 07:21
S164	1	10/275204	US-PGPUB; USPAT	ADJ	ON	2009/01/21 07:21
S166	10	("3518284").URPN.	USPAT	ADJ	ON	2009/01/21 07:22
S167	5	"1667247"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 07:26
S169	14	"447112"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 08:32
S168	39	"300019"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 08:32
S170	32	"270440"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 08:35
S171	8	"1251307"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 08:47
S172	1	"20020136678".pn.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 08:53
S173	8	"1291072"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 08:55
S174	5	"1820870"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 09:23
S176	10	"532325"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 09:24



S175	10	"593086"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 09:24
S177	11	SAWADA, MASAYUKI.in.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 09:25
S179	1	"4938931".pn.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 09:27
S178	1	"5227556".pn.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 09:27
S180	1	"4816606".pn.	US-PGPUB; USPAT	ADJ	ON	2009/01/21 09:28
S181	0	"20301515"	EPO; JPO; DERWENT	ADJ	ON	2009/01/21 11:36
L3	0	(reactor and tube and cataly\$3 and sheet and check valve and pipe). clm.	USPAT	ADJ	ON	2009/01/21 11:53
L2	1	(reactor and tube and cataly\$3 and sheet and check valve and pipe). clm.	US-PGPUB	ADJ	ON	2009/01/21 11:53

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